

# ABSTRACT OF THE DISCLOSURE

A variable resistance device is disclosed, which comprises a first variable resistance circuit and analog switches, a second variable resistance circuit including series-connected first and second resistors, one terminal of the first resistor connected to one terminal of the second resistor and the other terminal connected to one terminal of the first variable resistance circuit, a series-resistor circuit one terminal of which is connected to the other terminal of the second resistor, analog switches connected between the other terminal of the first resistor and nodes of respective resistors of the series-resistor circuit, an analog switch connected between the other terminal of the series-resistor circuit and a node of the first and second resistors, an analog switch connected between a node of the resistors of the series-resistor circuit and the node of the first and second resistors, and a short-circuiting analog switch connected between the first and second variable resistance circuits.